

Product Capabilities



Radio Test Sets

Aeroflex has more than 50 years experience in providing superior radio test set solutions. Our radio test sets have a wide range for covering wireless applications from HF, VHF, all the way to an industry first of 2.7 GHz. Aeroflex has some of the most advanced radio test sets currently used in engineering, production, support and service applications world-wide. We are dedicated to increasing your productivity and lowering the cost of test. We develop, manufacture and sell products that will protect your test investment with upgradeable software modules to meet the latest protocol standards.

3920 Digital Radio Test Set



The 3920 is the latest in next generation portable test for advanced professional analog and digital radio communications. Building upon a long-standing reputation for excellence in professional radio communications test, the 3920 from Aeroflex sets a new benchmark for quality, ease of use, performance and value.

The 3920 platform is capable of testing the following systems:

- Analog – FM, AM, AM USB, AM LSB
- P25 conventional/P25 trunking
- TETRA – BS, BS T1, DM, MS, MS T1
- SmartNet™/SmartZone™ trunking
- DMR – Digital Mobile Radio
- HPD® - High Performance Data
- NXDN™ (4800 / 9600)
- dPMR
- ARIB STD-T98

The 3920 is on the leading edge with the Auto-Test II functionality. This functionality allows the user to validate radios faster than ever with ease. Connect a single cable, press “Test and Align” and you are free to do more important things. This application is self contained within the 3920 and automatically performs the functions of radio alignment and verification to ensure optimal radio performance. The 3920 tests and aligns radio in as little as 6 minutes. It supports portables: XTS-5000, XTS-2500, XTS-1500, XTS-4000, XTS-3000, Saber, SSE-5000, MT-1500 and Mobiles: XTL-5000, XTL-2500, XTL-1500, Spectra and Spectra Plus.

The Auto-Test function provides the following alignment tests:

- Reference oscillator
- High/mid/low power
- Deviation balance
- Deviation limiting
- Front end alignment

The Auto-Test function provides the following performance tests:

- P25 modulation fidelity
- P25 symbol deviation
- P25 RX BER

Aeroflex Radio Test Set Products

- 2944B Communications Service Monitor
- 2945B Communications Service Monitor
- 2948B Low Phase Noise Communications Service Monitor
- 2975 P25 Radio Test Set
- 3900 Series Digital Radio Test Set
- 3500A Radio Communications Test Set

A passion for performance.

3500A Portable Radio Test Set



The 3500A improves upon the success of the Aeroflex 3500, the industry's first 1 GHz hand-held test set. Now at less than 8 lbs. and packaged in a new cast magnesium alloy case, the Aeroflex 3500A is truly a rugged and portable radio test set. With new integrated audio connectors and a microphone connector, the 3500A offers even easier operation than the 3500.

Some features on the 3500A are:

- 2 MHz – 1 GHz operation
- AM/FM transmitter and receiver tests
- Spectrum analyzer with <-136 dBm noise floor
- Tracking generator
- Built in DTF/SWR/return loss/insertion loss measurements
- Project 25 standard patterns and parametric measurements
- Audio frequency oscilloscope
- 5 hour battery life with continuous use
- -20° to +50° C operating temperature range
- Rugged construction (specifications for humidity, altitude, shock and vibration, MIL RF 28800F class II certified)

2945B Communications Monitor



Aeroflex's 2945B Communications Monitor is a compact, lightweight and rugged instrument that allows laboratory standard measurements to be conducted in the field.

Some of the 2945B's features are:

- Rugged lightweight package
- Full span spectrum analyzer with "live" look and listen
- Tracking generator with full offset tracking
- Accurate power measurements to 150W
- 5W protection on all RF ports as standard
- Color transfective superfast LCD with rapid refresh rate for easy monitoring and real time adjustment
- 50 kHz DSO (Digital Storage Oscilloscope) with anti-aliasing
- Transient and harmonic analysis

The 2945B has the LTR® trunked radio and repeater test option available. This option provides the radio test professional with a cost effective solution for testing LTR repeaters and radios. Designed to provide LTR signaling and parametric analysis, this option provides the user with a simple interface found in other trunked test options for these service monitors, such as EDACS and MPT-1327.

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